

Appl. No. 10/821,052
Amdt. date February 2, 2006
Reply to Office action November 2, 2005

Claim 1 (Currently Amended) A method for accurately conveying wireless connection availability through a tower in a defined area comprising the steps of:

determining the maximum capacity of the tower;

establishing a threshold capacity of the tower;

monitoring the calling activity through the tower by maintaining a constant count of the number of wireless devices that are connected through a specific tower;

detecting when the calling activity has exceeded the established threshold capacity for that tower; and

broadcasting a connection availability message to wireless devices in the area of the tower based on the detecting calling activity resulting from a maintained count of number of wireless devices connected through a specific tower.

Claim 2 (Canceled)

Claim 3 (Canceled)

Claim 4 (Currently Amended) The method as described in claim 1 3 further comprising after said broadcasting step, the steps of receiving and displaying the broadcasted message at a wireless device in the area of the tower.

Claim 5 (Original) The method as described in claim 4 wherein the display of the broadcasted message is a period event on the wireless device that corresponds to content of the calling availability through that tower.

Claim 6 (Currently Amended) The method as described in claim 1 3 wherein said threshold establishing step further comprises establishing multiple threshold levels.

Claim 7 (Original) The method as described in claim 6 further comprising before said broadcasting step, the step of detecting when the calling activity has exceeded an established threshold capacity level for that tower.

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Claim 8 (Original) The method as described in claim 7 further comprising the step of determining the closest threshold level that has been exceeded by the calling activity.

Claim 9 (Original) The method as described in claim 8 wherein said broadcasting step further comprises broadcasting a calling activity message to wireless device in the area of the tower, the message corresponding to the exceeded threshold level.

Claim 10 (Currently amended) A system and system for accurately conveying wireless connection availability comprising:

- a telephone tower for use in connecting wireless devices;

- a software routine within the telephone tower, said software routine capable of maintaining a count of the number of devices that are connected through the tower, of detecting when the number of devices connected via the tower exceed a predetermined threshold level and of broadcasting a message to wireless devices in the area related to the connection capability through that tower;

- a wireless device for use in communicating via the telephone control tower; and

- software within the wireless device for receiving and displaying connection availability via the tower.

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Claim 11 (Currently Amended) A computer program product stored in a computer readable medium for accurately conveying wireless connection availability through a tower in a defined area comprising:

instructions for determining the maximum capacity of the tower;

instructions for establishing a threshold capacity of the tower;

instructions for monitoring the calling activity through the tower by maintaining a constant count of the number of wireless devices that are connected through a specific tower; and

instructions for detecting when the calling activity has exceeded the established threshold capacity for that tower; and

instructions for broadcasting a connection availability message to wireless devices in the area of the tower based on the detecting calling activity resulting from a maintained count of number of wireless devices connected through a specific tower.

Claim 12 (Canceled)

Claim 13 (Canceled)

Claim 14 (Currently Amended) The computer program product as described in claim 11 ~~13~~ further comprising after said broadcasting instructions, instructions for receiving and displaying the broadcasted message at a wireless device in the area of the tower.

Claim 15 (Currently Amended) The computer program product as described in claim 11 ~~13~~ wherein said threshold establishing instructions further comprise instructions for establishing multiple threshold levels.

Claim 16 (Original) The computer program product as described in claim 15 further comprising before said broadcasting instructions, instructions for detecting when the calling activity has exceeded an established threshold capacity level for that tower.

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Claim 17 (Original) The computer program product as described in claim 16 further comprising instructions for determining the closest threshold level that has been exceeded by the calling activity.

Claim 18 (Original) The computer program product as described in claim 17 wherein said broadcasting instructions further comprise instructions for broadcasting a calling activity message to wireless device in the area of the tower, the message corresponding to the exceeded threshold level.